Profit calculation

1. Introduction

1.1 Purpose

The purpose of this document is to outline the requirements for developing a solution to evaluate income and costs generated during the main carriage in a logistics company. This system will calculate the profit or loss for each shipment.

1.2 Scope

The system will:

- Get income from customer payments and costs from service provision.
- Include relevant costs and incomes.
- Calculate profit or loses.

1.3 System Description

The system will handle and evaluate incomes and costs associated with shipments, calculate profits or losses.

1.4 System Context

The system will provide:

- Customer payment administration to handle incomes.
- Operational costs administration to handle service costs.

2. Functional Requirements

- 2.1 Income and Cost Tracking
 - FR1: The system must handle customer income for each shipment.
 - FR2: The system must handle all costs related to service provision.

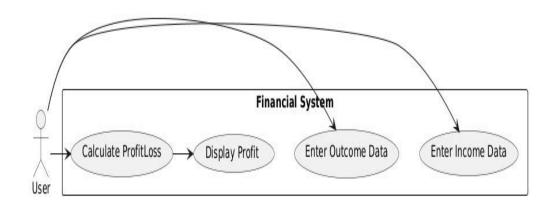
2.2 Profit and Loss Calculation

• **FR3:** The system must calculate the total profit or loss for each shipment.

Profit = Income - Costs

1.1 Use Case: Calculate Profit

1.1.1 Diagram

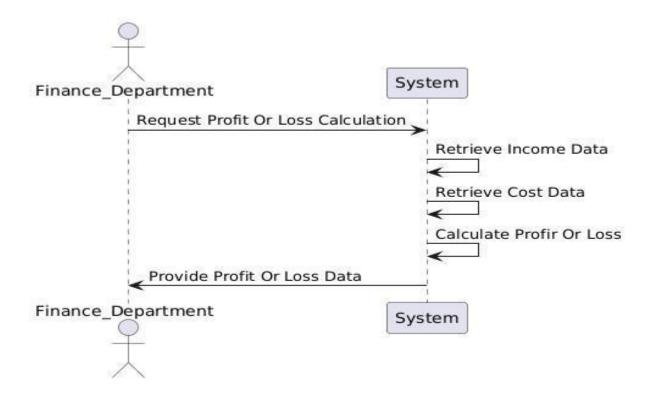


1.1.2 Description

| Description: | This use case calculates the total profit or loss for each shipment. |
|-----------------|--|
| Actors: | |
| | Finance Department |
| | System |
| | |
| Pre-conditions: | |
| | Income and cost data must be recorded in the system. |
| Postconditions: | |
| | Total profit or loss is calculated and stored. |
| Main Flow: | |
| 1. | Finance Department requests profit or loss calculation |

| | The user initiates a request for the profit or loss calculation. |
|--------------------|--|
| 2. | System retrieves income data (Incomes and Costs) |
| | The user enters the income data related to the shipment. |
| | The system stores the income data. |
| 3. | System retrieves cost data |
| | The user enters the costs data related to the shipment. |
| | The systems store the cost data |
| 4. | System calculates profit or loss |
| | The System performs the following calculations: |
| | Total Income: customer payment |
| | Total Costs: Sum of all recorded costs related to the |
| | shipment. |
| | Profit or Loss: Profit or Loss = Income - Total Costs. |
| | |
| 5. | System saves the profit or loss data |
| | The System stores the calculated profit or loss in the |
| | database |
| 6. | System displays the calculated information in the user interface |
| | The system displays the income, total costs and profit or loss |
| | in the user interface |
| | |
| Alternative Flows: | |
| 1 | Data Retrieval Error |
| | If there is an error in the process, the system logs the error |
| | and notifies in the UI |
| | The User can retry the request or address the data issue. |
| | |

1.1.3 Sequence Diagram



1.1.4 UI Prototype

